L Numbe	r Hits	Search Text	DB	Time stamp
1	560	(sodium or Na) near2 (gallium or gallate)	USPAT;	2003/08/21 10:14
			US-PGPUB;	200000000000000000000000000000000000000
	İ		EPO; JPO;	,
			DERWENT	
2	32	(gamani or ganato)) saille	USPAT;	2003/08/21 11:13
		(electrolyte or additive)	US-PGPUB;	
			EPO; JPO;	
	_		DERWENT	
3	8		USPAT	2003/08/21 10:28
4	5	NaGaO".sub.2"	USPAT;	2003/08/21 11:14
	ŀ		US-PGPUB;	·
			EPO; JPO;	
5	31	andiom and addition and a	DERWENT	
13	31	sodium near2 gallium near2 oxide	USPAT;	2003/08/21 11:27
			US-PGPUB;	
			EPO; JPO;	
6	18581	CARREIRO-LOUIS-G CARREIRO-L-G	DERWENT	
"	10301	CARREIRO-ET-AL TUCKER-S TUCKER-STEVEN-P	USPAT;	2003/08/21 11:33
Ť		TUCKER-STEVEN-PAUL TUCKER-STEVE	US-PGPUB;	
		TOOKEK-GTEVELIN-I AGE TOCKEK-STEVE	EPO; JPO;	
7	28	(CARREIRO-LOUIS-G CARREIRO-L-G	DERWENT	2002/00/04 44:00
		CARREIRO-ET-AL TUCKER-S TUCKER-STEVEN-P	USPAT; US-PGPUB;	2003/08/21 11:32
		TUCKER-STEVEN-PAUL TUCKER-STEVE) and (fuel adj	EPO; JPO;	
		cell)	DERWENT	
8	3451	CARREIRO-LOUIS-G.in. CARREIRO-L-G	USPAT;	2003/08/21 11:36
İ		CARREIRO-ET-AL.in. TUCKER-S.in.	US-PGPUB;	2000/00/21 11:00
		TUCKER-STEVEN-P.in. TUCKER-STEVEN-PAUL.in.	EPO, JPO,	
ŀ	1	TUCKER-STEVE.in.	DERWENT	
9	17	(CARREIRO-LOUIS-G.in. CARREIRO-L-G	USPAT;	2003/08/21 11:34
· ·		CARREIRO-ET-AL.in. TUCKER-S.in.	US-PGPUB;	
		TUCKER-STEVEN-P.in. TUCKER-STEVEN-PAUL.in.	EPO; JPO;	
140		TUCKER-STEVE.in.) and (fuel adj cell)	DERWENT	
10	2	CARREIRO-LOUIS-G.in. CARREIRO-L-G	USPAT;	2003/08/21 11:46
		CARREIRO-ET-AL.in.	US-PGPUB;	
			EPO; JPO;	
11	2	"6228527"	DERWENT	
' '		0220321	USPAT;	2003/08/21 11:55
	Ī		US-PGPUB;	
			EPO; JPO;	
12	3	"6030517"	DERWENT	2000/00/04 44 50
-	,	333377	USPAT; US-PGPUB;	2003/08/21 11:59
			EPO; JPO;	
	 	·	DERWENT	
13	8	"3887399"	USPAT;	2003/08/21 12:17
]		US-PGPUB;	2000/00/21 12.11
			EPO; JPO;	
			DERWENT	
14	4	"3347155"	USPAT;	2003/08/21 13:16
			US-PGPUB;	
ļ			EPO; JPO;	
45			DERWENT	
15	3947	aluminum and (fuel adj cell)	USPAT;	2003/08/21 13:17
			US-PGPUB;	
]			EPO; JPO;	
16	420	Johnston and Guel adjacelly and the many	DERWENT	
''	420	(aluminum and (fuel adj cell)) and (alkaline same	USPAT;	2003/08/21 13:18
	1	electrolyte)	US-PGPUB;	
			EPO; JPO;	,
			DERWENT	

17	156	((aluminum and (fuel adj cell)) and (alkaline same	USPAT;	2003/08/21 15:22
		electrolyte)) and additive	US-PGPUB;	
	ļ		EPO; JPO;	
			DERWENT	
18	828	429/27.ccls. 429/29.ccls.	USPAT;	2003/08/21 15:23
			US-PGPUB;	
			EPO; JPO;	
10			DERWENT	
19	29	(429/27.ccls. 429/29.ccls.) and (gallium gallate)	USPAT;	2003/08/21 15:31
-			US-PGPUB;	
			EPO; JPO;	
20	16744	(aluminum or AL) same nerovide	DERWENT	0000/00/04 45 00
	10744	(aluminum or AL) same peroxide	USPAT;	2003/08/21 15:32
			US-PGPUB; EPO; JPO;	
			DERWENT	
21	120	((aluminum or AL) same peroxide) and (fuel adj cell)	USPAT:	2003/08/21 15:51
		((all all all all all all all all all al	US-PGPUB;	2000/00/21 10:01
ĺ			EPO; JPO;	
			DERWENT	
22	148	429/15.ccls.	USPAT;	2003/08/21 15:51
		·	US-PGPUB;	
			EPO; JPO;	
			DERWENT	

L Number	Hits	Search Text	DB	Time stamp
1	560	(sodium or Na) near2 (gallium or gallate)	USPAT;	2003/08/21 10:14
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
2	32	((sodium or Na) near2 (gallium or gallate)) same	USPAT;	2003/08/21 11:13
		(electrolyte or additive)	US-PGPUB;	
İ			EPO; JPO;	
_			DERWENT	
3	8	4150197.URPN.	USPAT	2003/08/21 10:28
4	5	NaGaO".sub.2"	USPAT;	2003/08/21 11:14
			US-PGPUB;	
		•	EPO; JPO;	
_			DERWENT	
5	31	sodium near2 gallium near2 oxide	USPAT;	2003/08/21 11:27
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
6	18581	CARREIRO-LOUIS-G CARREIRO-L-G	USPAT;	2003/08/21 11:33
		CARREIRO-ET-AL TUCKER-S TUCKER-STEVEN-P	US-PGPUB;	
		TUCKER-STEVEN-PAUL TUCKER-STEVE	EPO; JPO;	
_	00	(CARREIRO A CARREIRO A	DERWENT	
7	28	(CARREIRO-LOUIS-G CARREIRO-L-G	USPAT;	2003/08/21 11:32
		CARREIRO-ET-AL TUCKER-S TUCKER-STEVEN-P	US-PGPUB;	ļ
		TUCKER-STEVEN-PAUL TUCKER-STEVE) and (fuel adj	EPO; JPO;	
	0.454	cell)	DERWENT	
8	3451	CARREIRO-LOUIS-G.in. CARREIRO-L-G	USPAT;	2003/08/21 11:36
		CARREIRO-ET-AL.in. TUCKER-S.in.	US-PGPUB;	
		TUCKER-STEVEN-P.in. TUCKER-STEVEN-PAUL.in.	EPO; JPO;	
9	47	TUCKER-STEVE.in.	DERWENT	
9	17	(USPAT;	2003/08/21 11:34
		CARREIRO-ET-AL.in. TUCKER-S.in.	US-PGPUB;	
ļ		TUCKER-STEVEN-P.in. TUCKER-STEVEN-PAUL.in.	EPO; JPO;	
10	2	TUCKER-STEVE.in.) and (fuel adj cell)	DERWENT	
10	2	CARREIRO-LOUIS-G.in. CARREIRO-L-G	USPAT;	2003/08/21 11:36
	İ	CARREIRO-ET-AL.in.	US-PGPUB;	
			EPO; JPO;	
			DERWENT	

Day: Thursday Date: 8/21/2003



PALM INTRANET

Time: 11:38:20

Inventor Name Search Result

Your Search was:

Last Name = CARREIRO

First Name = [Nothing Entered]

			<u></u>		
Application#	Patent#	Status	Date Filed	Title	Inventor Name
60301642	Not Issued	020	08/06/2001	ORIGINAL BELT LEASH	CARREIRO, JOSEPH RAYMONDS
10260357	Not Issued	041	09/30/2002	FOOTBALL BOARD GAME	CARREIRO, AURELIO B.
10006734	Not Issued	030	11/30/2001	SODIUM GALLIUM OXIDE ELECTROLYTE ADDITIVE FOR ALUMINUM ANODE ACTIVATION	CARREIRO, LOUIS G.
09832114	6498767	150	04/11/2001	CRUISE MISSILE DEPLOYED SONAR BUOY	CARREIRO, PAUL J.
09822309	6484641	150	03/30/2001	CRUISE MISSILE DOWNED AIRMAN DECOY	CARREIRO, PAUL J.
<u>09656196</u>	6401645	150	09/06/2000	VEHICLE LAUNCH ASSEMBLY FOR UNDERWATER PLATFORMS	CARREIRO, JOSEPH A
<u>08679167</u>	5878278	150		SYSTEM FOR CONTROLLING CONNECTION REQUESTS BY EACH IO CONTROLLERS STORING AND MANAGING A REQUEST QUEUE WHEREIN ADDITIONAL CHANNEL ADDRESSES CAN BE ADDED	CARREIRO, PAUL PEIXOTO
08593647	5728982	150	T.	MINIATURE ROTARY ELECTRIC SWITCH	CARREIRO , ROBERT J.

<u>08581719</u>	5630092	150	01/02/1996	SYSTEM AND METHOD FOR TRANSFERRING COMPRESSED AND UNCOMPRESSED DATA BETWEEN STORAGE SYSTEMS	CARREIRO , PAUL P.
08537349	Not Issued	161	10/02/1995	SELF-CENTERING TIP AND EXTRUDING DIE	CARREIRO , LOUIS
08326407	Not Issued	166	10/20/1994	SYSTEM AND METHOD FOR TRANSFERRING COMPRESSED AND UNCOMPRESSED DATA BETWEEN STORAGE SYSTEMS	CARREIRO , PAUL P.
08322441	5561824	150	10/04/1994	STORAGE MANAGEMENT OF DATA FOR ENSURING COMMUNICATION OF MINIMAL LENGTH DATA	CARREIRO , PAUL P.
08316994	Not Issued	166	10/03/1994	METHOD AND APPARATUS FOR AUTOMATIC FRAME TRANSMISSION ON A CHANNEL TO CONTROLLER INTERFACE IN A DATA PROCESSING SYSTEM	CARREIRO , PAUL PEIXOTO
07747970	Not Issued	161	08/21/1991	SCENTED STUFFED ANIMAL	CARREIRO , JOSEPH E.
<u>07641075</u>	D337139	150		EXERCISE BAR	CARREIRO , ROBERT T
07382826	4933003	150	07/18/1989	METAL ALLOY FORMATION BY REDUCTION OF POLYHETEROMETALLIC COMPLEXES	CARREIRO , LOUIS G.
07039483	Not Issued	161	04/17/1987	CANDY	CARREIRO , ERNESTO
07018915	Not Issued	161	02/25/1987	HANDLEBARS PORTA- GYM	CARREIRO , ROBERT T.
05968396	D257635	150	12/11/1978	TOY SWORD	CARREIRO , RONALD
05968395	D259578	150	12/11/1978	TOY HELMET	CARREIRO , RONALD

Inventor Search Completed: No Records to Display.

Saarah Anathan	Last Name	First Name	
Search Another:	carreiro	i i	
Inventor		Soarch I	
		Searcing	

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(FILE 'HOME' ENTERED AT 16:07:24 ON 21 AUG 2003)

=> s 12 and (gallium# or gallate#)
 256369 GALLIUM#
 10499 GALLATE#

L3 1 L2 AND (GALLIUM# OR GALLATE#)

Print selected from Online session Page 1 08/21/2003

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER:

1997:239821 CAPLUS

DOCUMENT NUMBER:

127:20835

TITLE:

Enhanced electrochemical performance in the

development of the aluminum/hydrogen

peroxide semi-fuel cell

AUTHOR(S):

Dow, E. G.; Bessette, R. R.; Seeback, G. L.;

Marsh-Orndorff, C.; Meunier, H.; VanZee, J.; Medeiros,

M. G

CORPORATE SOURCE:

Naval Undersea Warfare Center, Division Newport.

Newport, RI, 02841. USA

SOURCE:

Journal of Power Sources (1997), 65(1-2), 207-212

CODEN: JPSODZ: ISSN: 0378-7753

PUBLISHER:

Elsevier Journal

DOCUMENT TYPE: LANGUAGE:

English

Significant accomplishments from this research effort have defined and characterized the nature and rate of the chem. dynamics at the anode and cathode, thus allowing the development of the aluminum/hydrogen peroxide couple as an energy-dense semi-fuel cell system. This effort has included the investigation of new aluminum alloys, development of new electrocatalysts for the hydrogen peroxide, optimization of the operating parameters and modeling of the electrochem, performance of the couple. Furthermore, it has demonstrated a technique that will enhance the electrochem. properties of selected aluminum anodes, while controlling unwanted corrosion reactions at a tolerable level. The unique methodol, described in this paper involves the use of additives to activate the surface of the aluminum anode-electrolyte, thus avoiding alloying, processing and heat treating. In addn. to this anode development, we have identified a novel electrocatalyst that enhances effective and efficient electrochem. redn. of hydrogen peroxide, thus shifting the predilection of the **peroxide** from parasitic decompn. to desired high rate electrochem. redn. The improved performance of this electrochem. couple has led to the attainment of current densities of 500 to 800 mA cm-2, five to seven times that originally achievable at comparable cell voltages of 1.4 to 1.2. System-level modeling, based on the exptl. evidence reported in this paper, indicates that the aluminum/hydrogen peroxide couple is a versatile and energetic electrochem. energy

peroxide couple is a versatile and energetic electrochem. energy source.

IT Anodic polarization

Battery electrolytes

Fuel cells

Primary batteries

(enhanced electrochem. performance in the development of the ${\bf aluminum/hydrogen}$ ${\bf peroxide}$ ${\bf semi-fuel}$

cell for underwater vehicles)

IT Projectiles

(torpedoes: enhanced electrochem, performance in the development of the ${\bf aluminum/hydrogen}$ peroxide semi-fuel

cell)

IT Vehicles

(underwater: enhanced electrochem. performance in the development of the aluminum/hydrogen peroxide semi-fue) .

IT 7429-90-5. **Aluminum**, uses

RL: DEV (Device component use): USES (Uses)
 (anode: enhanced electrochem. performance in the development of the aluminum/hydrogen peroxide semi-fuel cell for underwater vehicles)

1304-76-3. Bismuth oxide. uses 1309-48-4. Magnesium oxide. uses 1310-53-8. Germanium oxide. uses 1312-43-2. Indium oxide 1312-43-2. Indium oxide 1312-81-8, Lanthana 1314-36-9, Yttria, uses 1330-43-4. Sodium borate 6834-92-0 10141-05-6. Cobalt nitrate 12024-21-4. Gallium oxide 12058-66-1. Sodium stannate 12201-47-7. Sodium plumbate na2pbo3 13138-45-9. Nickel nitrate RL: DEV (Device component use): USES (Uses) (electrolyte additive; enhanced electrochem. performance in the development of the aluminum/hydrogen peroxide semifuel cell for underwater vehicles)